

SEQUENCE LISTING

<110> AHUJA, SUNIL  
 GONZALEZ, ENRIQUE  
 MUMMIDI, SRINIVAS  
 DOLAN, MATTHEW  
 BAMSHAD, MIKE

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 GENES

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<140> UNKNOWN

<141> 2002-03-29

<150> PCT/US00/28158

<151> 2000-10-12

<150> 60/159,137

<151> 1999-10-12

<160> 72

<170> PatentIn version 3.0

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 ccactaagat cctgggtcca gaaaaagatg ggaaacctgt ttagctcacc cgtgagccca 180  
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tagttaaaac tctttagaca acaggttttt tccgtttaca gagaacaata atattgggtg 240
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gggcacaggg ttaatgtgaa gtccaggatc cccctctaca tttaaagttg gtttaagttg 360
gctttaatta atagcaactc ytaagataat cagaattttc ttaacctttt agccttactg 420
ttgaaaagcc ctgtgatctt gtacaaatca tttgcttctt ggatagtaat ttcttttact 480

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aaaatgtggg cttttgacta gatgaatgta aatgttcttc tagytctgat atcctttatt    540
ctttatattt tctaacagat tctgtgtagt gggatgagca gagaacaaaa acaaaataat    600
ccagtgagaa aagcccgtaa ataaactttt agaccagaga tctattctct agcttatttt    660
aagctcaact taaaaagaag aactgttctc tgattctttt cgccttcaat acacttaatg    720
atttaactcc accctccttc aaaagaaaca gcatttccta cttttatact gtctatatga    780
ttgatttgca cagctcatct ggccagaaga gctgagacat ccgttcccct acaagaaaact    840
ctccccggtg agtaacctct cagctgcttg gcctgttagt tagcttctga gatgagtaaa    900
agactttaca ggaaacccat agaagac                                         927

```

```

<210> 70
<211> 927
<212> DNA
<213> Artificial Sequence

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<220>
<223> Synthetic oligonucleotide

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<220>
<221> misc_feature
<222> (177)..(494)
<223> WHEREIN Y = C OR T

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<400> 70
cttcagatag attatatctg gagtgaagaa tcctgccacc tatgtatctg gcatagtgtg    60
agtcctcata aatgcttact ggtttgaagg gcaacaaaat agtgaacaga gtgaaaatcc    120
ccactaagat cctgggtcca gaaaaagatg ggaaacctgt ttagctcacc cgtgagycca    180
tagttaaacc tctttagaca acaggttgtt tccgtttaca gagaacaata atattgggtg    240
gtgagcatct gtgtgggggt tggggtgagg taggggatac ggggagagtg gagaaaaagg    300
ggacacaggg ttaatgtgaa gtccaggatc cccctctaca tttaaagtgt gtttaagttg    360
gctttaatta atagcaactc ttaagataat cagaattttc ttaaccttty agccttactg    420
ttgaaaagcc ctgygatctt gtacaaatca tttgcttctt ggatagtaat ttcttttact    480
aaaatgtggg ctttggacta gatgaatgta aatgttcttc tagctctgat atcctttatt    540
ctttatattt tctaacagat tctgtgtagt gggatgagca gagaacaaaa acaaaataat    600
ccagtgagaa aagcccgtaa ataaaccttc agaccagaga tctattctct agcttatttt    660
aagctcaact taaaaagaag aactgttctc tgattctttt cgccttcaat acacttaatg    720
atttaactcc accctccttc aaaagaaaca gcatttccta cttttatact gtctatatga    780

```

ttgatttgca cagctcatct ggccagaaga gctgagacat ccgttcccct acaagaaact 840  
 ctccccggta agtaacctct cagctgcttg gcctgttagt tagcttctga gatgagtaaa 900  
 agactttaca ggaaacccat agaagac 927

<210> 71  
 <211> 927  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic oligonucleotide

<220>  
 <221> misc\_feature  
 <222> (94)..(895)  
 <223> WHEREIN R = A OR G

<220>  
 <221> misc\_feature  
 <222> (209)..(880)  
 <223> WHEREIN Y = C OR T

<400> 71  
 cttcagatag attatatctg gagtgaagaa tcctgccacc tatgtatctg gcatagtgtg 60  
 agtcctcata aatgcttact ggtttgaagg gcarcaaaat agtgaacaga gtgaaaatcc 120  
 ccactaagat cctgggtcca gaaaaagatg ggaaacctgt ttagctcacc cgtgagccca 180  
 tagttaaacc tctttagacr acaggttgyt tccgtttaca gagaacaata atattgggtg 240  
 gtgagcatct gtgtgggggt tgggggtggga taggggatac ggggagagtg grgaaaaagg 300  
 ggacacaggg ttaatgtgaa gtccaggatc cccctctaca tttaaagttg gtttaagttg 360  
 rctttaatta atagcaactc ttaagataat cagaattttc ttaacctttt agccttactg 420  
 ttgaaaagcc ctgtgatctt gtacaaatca tttgcttctt ggatagtaat ttcttttact 480  
 aaaatgtggg cttttgacta gatgaatgta aatgtttctt tagctctgat atcctttatt 540  
 ctttatatatt tctaacagat tctgtgtagt gggatgagca gagaacaaaa acaaaataat 600  
 ccagtgagaa aagcccgtaa ataaaccttc agaccagaga tctattctct agcttatatt 660  
 aagctcaact taaaaagaag aactgytctc tgattctttt cgccttcaat aactttaatg 720  
 atttaactcc accctccttc aaaagaaaca gcatttctta cttttatact gyctatatga 780  
 ttgatttgca cagctcatct ggccagaaga gctgagacat ccgttcccct acaagaaact 840

ctccccggtg agtaacctct cagctgcttg gcctgttagy tagcttctgr gatgrgtaaa 900  
agactttaca ggaaacccat agaagat 927

<210> 72  
<211> 927  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide

<220>  
<221> misc\_feature  
<222> (718)..(925)  
<223> WHEREIN R = A OR G

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agtcctcata aatgcttact ggtttgaagg gcaacaaaat agtgaacaga gtgaaaatcc 120  
ccactaagat cctgggtcca gaaaaagatg ggaaacctgt ttagctcacc cgtgagccca 180  
tagttaaaac tctttagaca acaggttggt tccgtttaca gagaacaata atattgggtg 240  
gtgagcatct gtgtgggggt tgggggtggga taggggatac ggggagagtg gagaaaaagg 300  
ggacacaggg ttaatgtgaa gtccaggatc cccctctaca tttaaagttg gtttaagttg 360  
gctttaatta atagcaactc ttaagataat cagaattttc ttaacctttt agccttactg 420  
ttgaaaagcc ctgtgatctt gtacaaatca tttgcttctt ggatagtaat ttcttttact 480  
aaaatgtggg cttttgacta gatgaatgta aatgttcttc tagctctgat atcctttatt 540  
cttttatatt tctaacagat tctgtgtagt gggatgagca gagaacaaaa acaaaataat 600  
ccagtgagaa aagcccgtaa ataaaccttc agaccagaga tctattctct agcttatttt 660  
aagctcaact taaaaagaag aactgttctc tgattctttt cgccttcaat acacttartg 720  
atttaactcc accctccttc aaaagaaaca gcatttccta cttttatact gtctatatga 780  
ttgatttgca cagctcatct ggccagaaga gctgagacat cggttcccct acaagaaact 840  
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agactttaca ggaaacccat agaarac 927